Figure 1: Space filling representation of the Fv fragment of the antibody 4-4-20

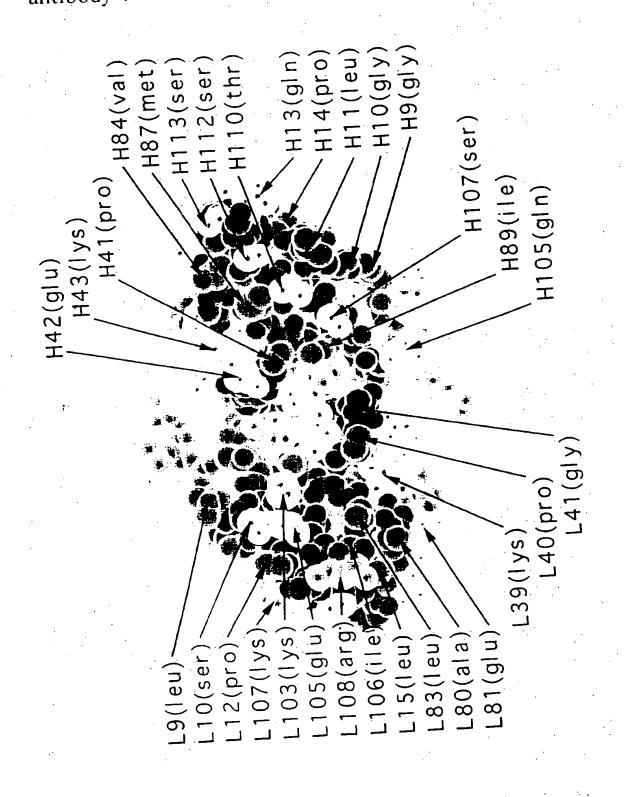


Figure 2a: Variable/constant domain interface residues for VL

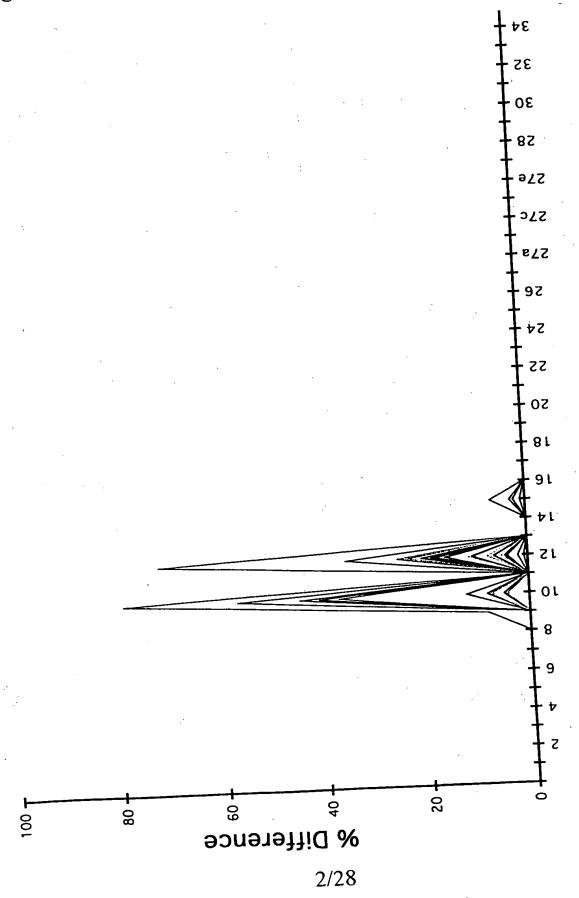


Figure 2a: Variable/constant domain interface residues for VL (cont.)

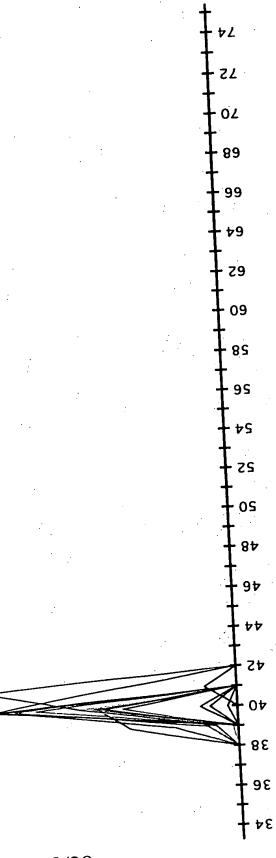


Figure 2a: Variable/constant domain interface residues for VL (cont.)

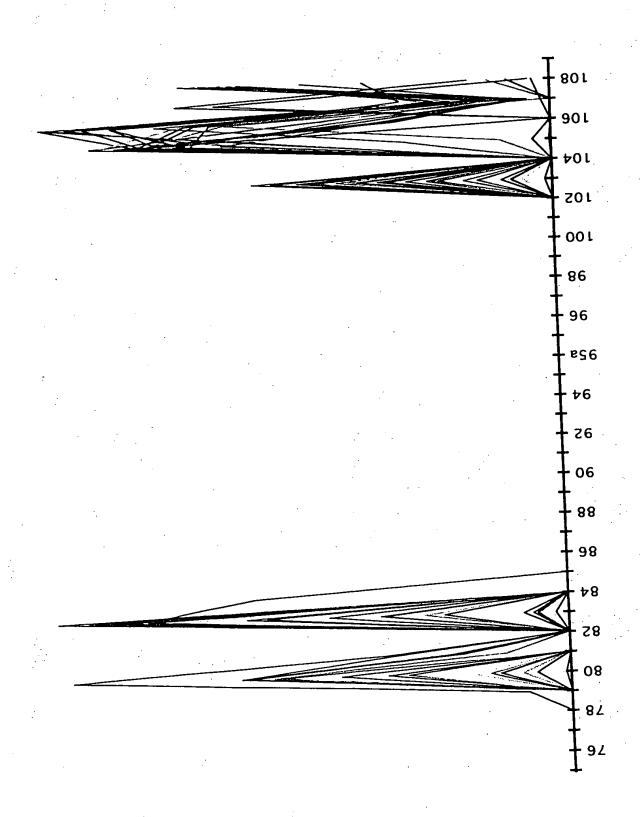


Figure 2a: Variable/constant domain interface residues for VL (cont.)

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Figure 2a: Variable/constant domain interface residues for VL

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Figure 2a: Variable/constant domain interface residues for VL (cont.)

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Figure 2a: Variable/constant domain interface residues for VL (cont.)

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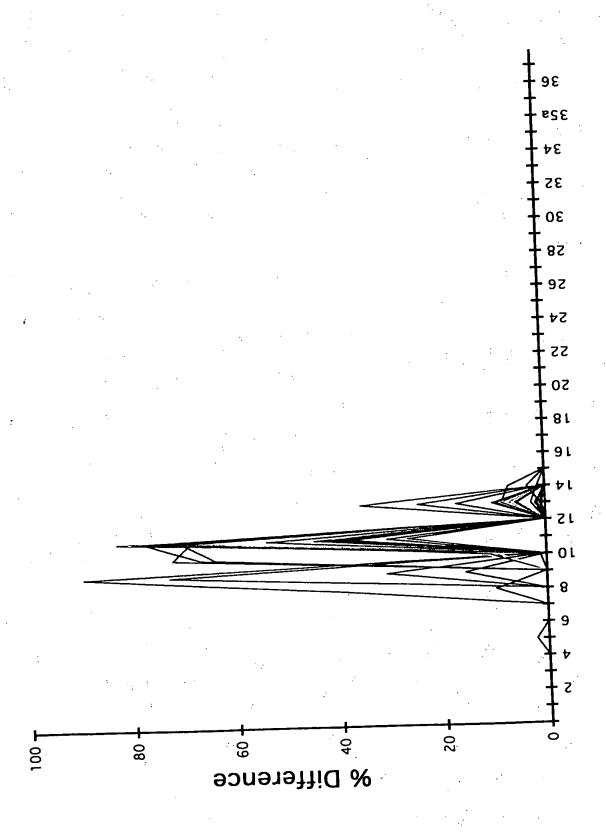
Figure 2a: Variable/constant domain interface residues for VL

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Figure 2a: Variable/constant domain interface residues for VL (cont.)

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Figure 2b: Variable/constant domain interface residues for VH



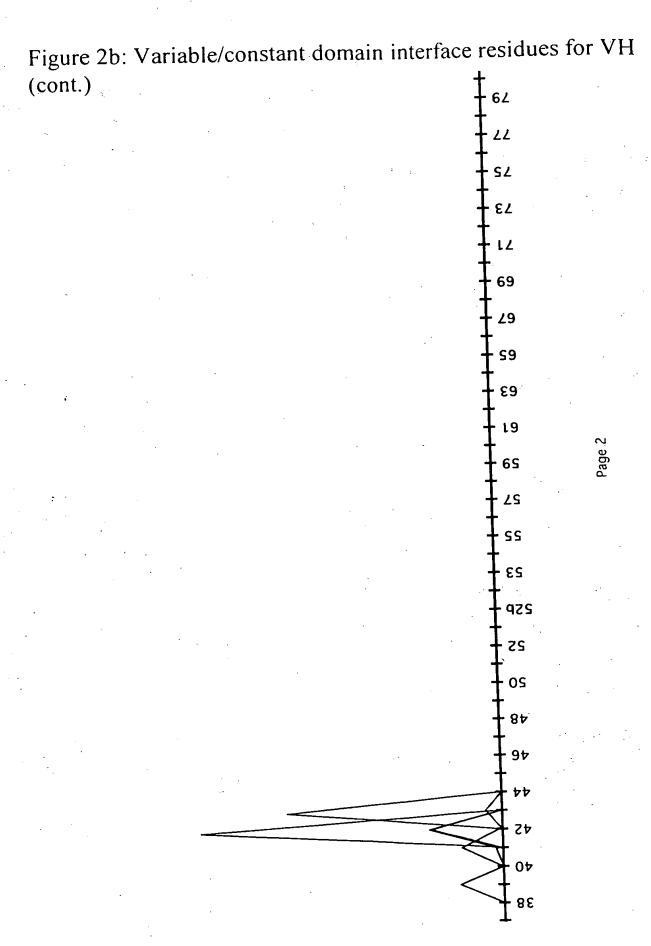


Figure 2b: Variable/constant domain interface residues for VH (cont.)

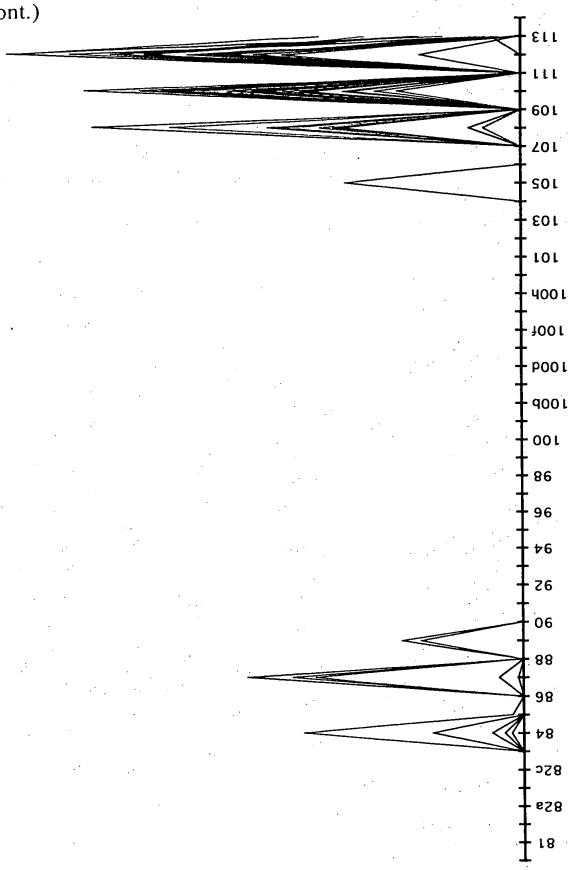


Figure 2b: Variable/constant domain interface residues for VH (cont.)

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Figure 2b: Variable/constant domain interface residues for VH (cont.)

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Figure 2b: Variable/constant domain interface residues for VH (cont.)

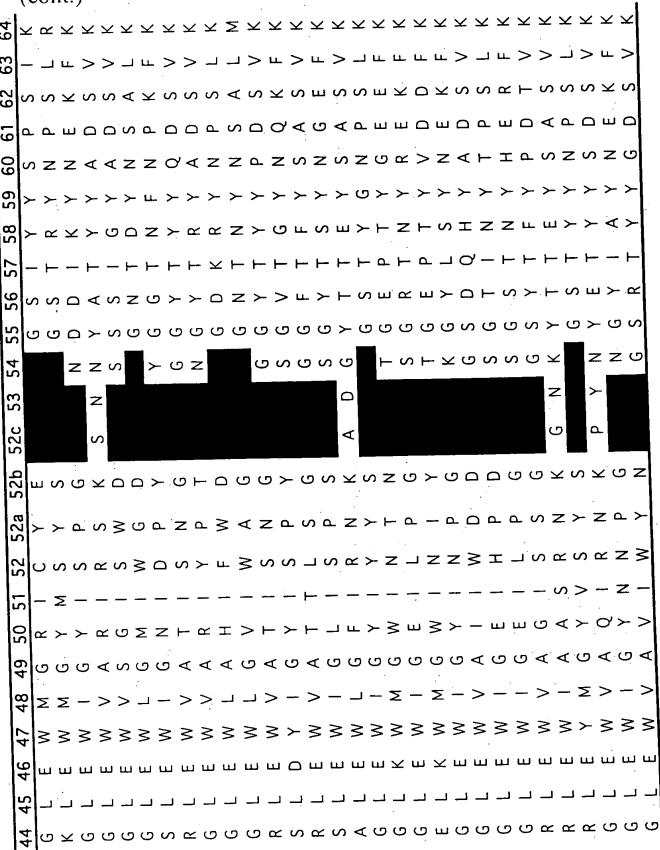


Figure 2b: Variable/constant domain interface residues for VH (cont.)

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Figure 2b: Variable/constant domain interface residues for VH (cont.)

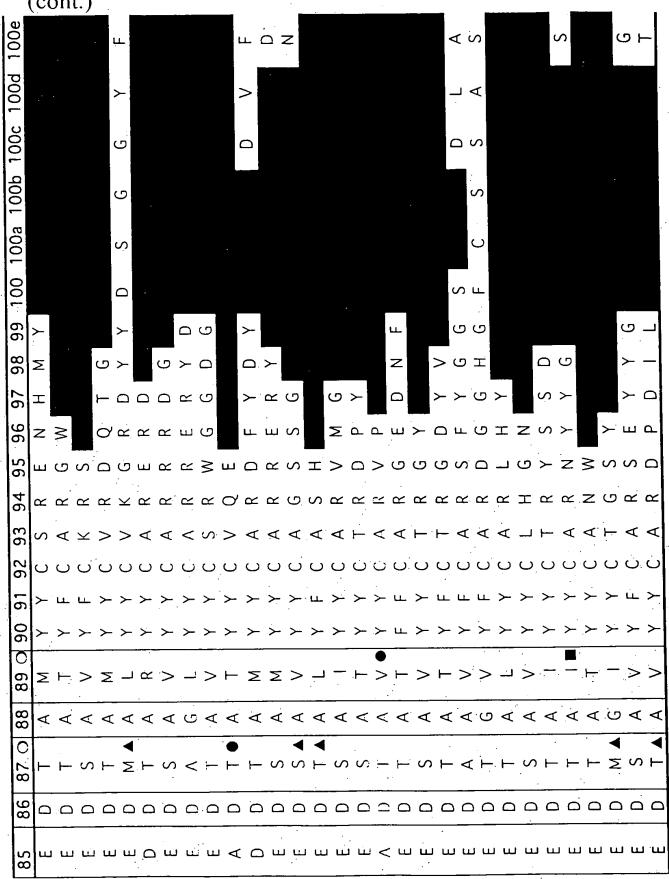


Figure 2b: Variable/constant domain interface residues for VH (cont.)

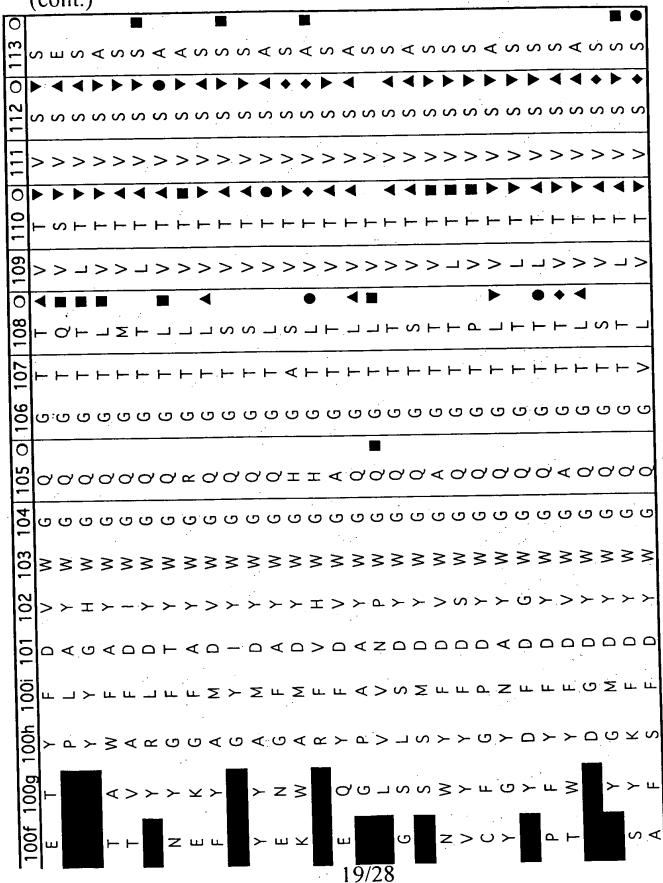


Figure 3: Western blots showing the insoluble (i) and soluble (s) fractions of cell extracts

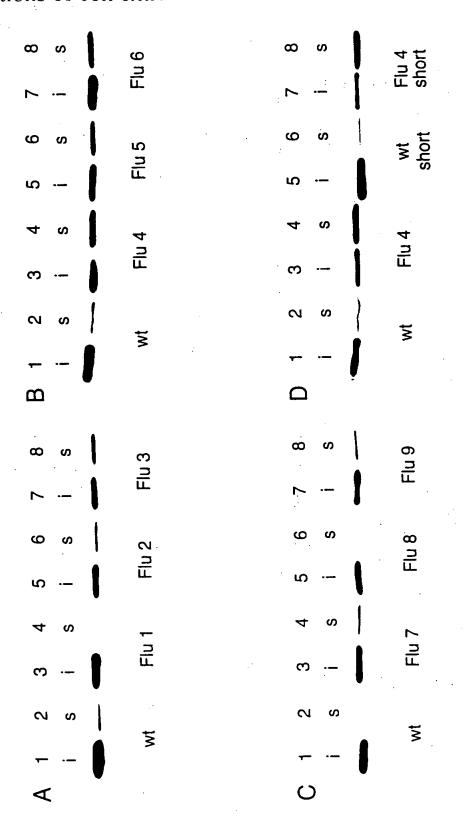
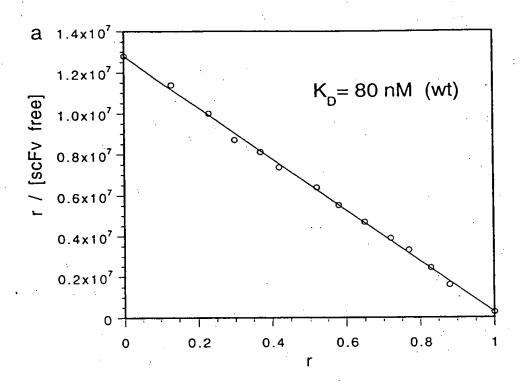


Figure 4: Scatchard plots of fluorescence titration of fluorescein with antibody: a) Titration of wt scFv; b) Titration of Flu4(V84D)



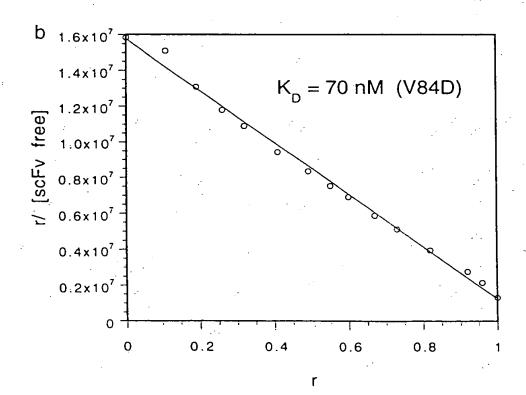


Figure 5: Overlay plot of urea denaturation. (x) wt scFv, (o) Flu4

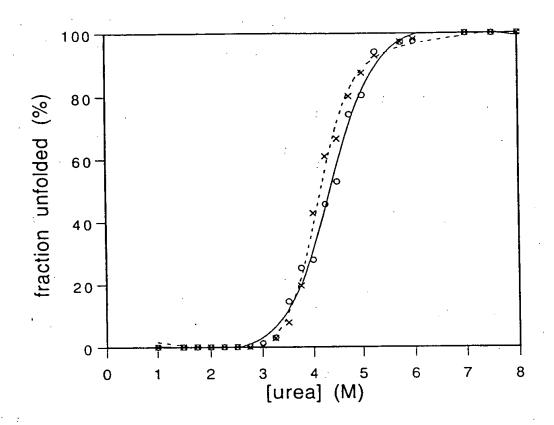


Figure 6: Thermal denaturation time courses at 40°C and 44°C for wt and Flu4 scFv fragments

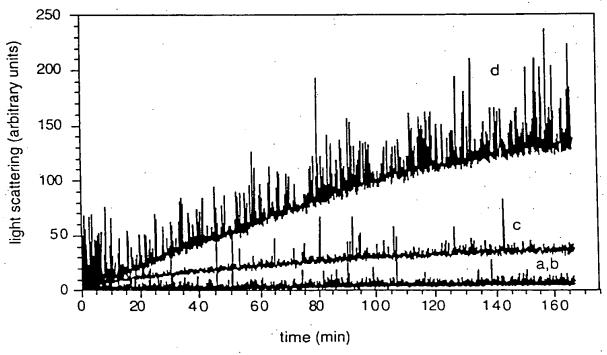


Table 1: Sequence variability of residues contributing to the v/c interface

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Table 1: Sequence variability of residues contributing to the v/c interface (cont.)

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L80	57	74	21	a	mn	Ala	Ala	0	ω	0	0	0	က	9	0	9	0	64	0	တ	7	0	0	.0	0	7	
				kappa	hu		Pro	0	0	0	0	0	0	တ	0	0	0	16	0	74	0	0	0	0	0	0	0
				da	mu		Asp	96	0	0	0	0	0	0	0	0	က	0	0	0	0	0	_	.0	0	0	
				lambda	hu		Gj	m	0	0	7	ĸ	0	0	0	0	90	7	0	0		0	0	0	0	0	0
[41	114	121	က		mu	हि	Gly	10	4	0	_	7	0	-	0	0	80	0	0	0	0	0	0	0	0	0	7
				kappa	ΡΩ		Gly	0	0	0	0	0	0	0	0	0	66	0	0	0	0	0	0	0	0	0	
				Г	E	-	Pro	0	0	0	0	0	0	0	0	0	0	<del></del>	0	96	0	0	0	m	0	0	0
:				ambda	<u> </u>		Pro	0	0	0	0	0	_	2	0	0	0	. —	0	92	0	0	0	0	0	0	
140	64	82	22		E E	Pro	Jo C	1	0	0	0	0		19	0	m	0	, ,	. 0	77	0	0	0	0	0	0	0
				kappa	12	┨	Pro F	0	0	0		10	0	2	0	0	· C	) <del>,</del> —	. 0	94	.: ,	· C	· C	Ċ	· C	0	0
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Table 1: Sequence variability of residues contributing to the v/c interface (cont.)

Fig.   Fig.						<del></del>	—,																					
Tide					ga	E		Gl	0	0	0	0	9	0	0	0	54	0	0	0	9	0	0	0	0	0	0	0
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Company   Comp	108	47	103	55	a	m	Arg	Arg	0 (	0	0	100	0	0	0	Ö	0	0	0	0	0	0	0	0	0	0	0	0
L106					kapp	2		Arg	0	0	0	97	0	0	0	0	0	<b></b>	0	0	0	0	0	-	0	0	0	0
14   56   56   56   56   56   56   56   5			·		da	m	ì	Gj	0	0	0	က	0	0	2	0	0	95	0	0	0	0		0	0	0	0	0
14   56   15   15   15   15   15   15   15				ļ	lamb	2		G	0	0	0	ω	0	0	Š	0	0	83	0	<del>-</del>	0	0	0	က	0	0	0	<b>,</b>
Color   Colo		26	65	15	В	m	Lys	Lys	0	0	26	<del></del>	0	0	0	_	0	0	0	0	0	0	0	0	0	0	0	0
14   15   156   156   156   156   156   156   156   156   155   156					kapp	2		Lys	0	0	94	7	0		0	2	0	0	0	0	0	0	0	0	0	0	0	0
14   14   14   14   16   17   17   17   17   17   17   17	·				da	m		Leu	0	0	0	0	0	0	0	0	0	0	0	0	0	7	Ö	97	0	0	0	0
L106  L106  L106  S6  S6  S6  S6  S7  S0  S0  S0  S0  S0  S0  S0  S0  S0	06A	. 26	65	15	lamb	hu		Leu	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	6	0	0	0	0
L106  L106  L106  Selection of the life life life life life life life lif			•		da	mn		Val	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
LI kappa					ampo	hū		Val	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
7 4000000000000000000000000000000000000	901	14	28	56		m	le le	lle	0	0	0	0	0	0	0	0	0	0	0	0	0	-	73	25	0	0	0	0
7 4000000000000000000000000000000000000					kapp	μ		lle	0	0	0	-	0	0	· —	<u>-</u>	0	0	0	0	0	3	88	<b>-</b>	က်	7	0	0
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Table 1: Sequence variability of residues contributing to the v/c interface (cont.)

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H42	=	. r.	-		2	nio	ol ,	0 (	0 (	) )	> ;	=	<del></del>	c C	<del>, -</del>	0	0	C	· C	ζ	3 <	) C	> <	<b>&gt;</b>	>	0	0	C	}
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H41	2	ر 	٠ - ر با د		2	2	Arg	0	0	m (	36	0	13	18	_	0	0	_	- c	5	<u> </u>		(	<b>)</b> .(	0	ဖ	С	) C	>
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H14			ရှိ (	1	E	Pro	Pro	0	0	0	0	0		3	0	0	C	0	0 0	> t	ထို	<b>)</b>	0 (	က	0	0	· C		>
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112		<u> </u>	5 -		E	Gln	Lys	0	0	54	18	0	0	0	0	22	C	י כ	ഹ (	<b>O</b>	0	0	0	0	0	C	) C	> 0	>
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Asp Glu Lys Arg His Thr Ser Asn Gly Gly Gly Cys Pro Val Ile Leu Met

Position % exp. (FAB) % exp. (ind.) % buried v/c Species Seq. 4-4-20 Consensus Distribution:

Table 1: Sequence variability of residues contributing to the v/c interface (cont.)

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H113	2	<u>∞</u>	,	mú	Ser	Ser	0	0	0	0	0		77	С	) C	<b>&gt;</b> •	_	25	0	C	· c	> '	0	0	0	C	, , ,	) C	,					
	_	^			7	hu	0,1	Ser	0	0	0	0	0	0	97	c	· ·	o (	0	0	0	^		>	<u></u>	0	0			o c				
H112	25	80	62	ш	Ser	Ser	0	0	0.	0	0	0	100	_	<b>)</b> (	<b>&gt;</b> (	0	0	0	C	<b>.</b>	>	0	0	0		o c	o c						
1	2	Θ	9	된	0,	Ser	0	0	0	0	0	0	98	\ 	) ( 	O	0	0	0	,	_ •	_	0	0	<u></u>	· c	-	- C						
110	9	S	. 2	3	Th'	14.	0	0	0	0	0	66	С	· c	<b>)</b>	0	0	0	C	) C	<b>)</b>	0	0	0	· Ċ	o	<b>&gt;</b> (	<b>&gt;</b> (						
표	2	5	<u> </u>	] PE	1	Thr	0	0	0	0	0	89	^	1 (	> 	0	0	0	<u></u>	) C	>	<u>.</u>	7		<u> </u>	_	) ·	0						
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Table 2: Mutations introduced in the scFv fragment of the antibody 4-4-20

	L15E (Vլ)	L11N (VH)	L11D (VH)	V84D (V <sub>H</sub> )
Flu 1	•		:	
Flu 2		•		
Flu 3			•	÷
Flu 4				•
Flu 5	٠	•		•
Flu 6			•	•
Flu 7	•	• .	•	
Flu 8	•		•	.*
Flu 9	•	•		•
Flu 4 short				•

Table 3:  $K_D$  values of the different scFv mutants determined in fluorescence titration

	Flu wt	Flu 3	Flu 4	Flu 6	Flu wt#	
K <sub>D</sub> (nM)	80 ± 7	60 ± 12	70 ± 10	75 ± 13	90	